IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

 (Previously Presented) A method of cooling a charge-coupled device; said method comprising:

coupling said charge-coupled device to a cold side of a thermoelectric cooling device; coupling a hot side of said thermoelectric cooling device to a transfer plate;

mounting said transfer plate to a thermal barrier, said thermal barrier defining a cavity thermally isolated from said transfer plate, said cavity being adapted to house said chargecoupled device; and

coupling said transfer plate to a heat sink.

- (Original) The method of claim 1 further comprising interposing a spacer between said charge-coupled device and said cold side of said thermoelectric cooling device.
- (Original) The method of claim 2 wherein said interposing comprises selectively
 dimensioning said spacer to maximize a surface area of contact between said charge-coupled
 device and said cold side of said thermoelectric cooling device.
- 4. (Original) The method of claim 2 wherein said interposing comprises selectively dimensioning said spacer to position said hot side of said thermoelectric cooling device in a predetermined location relative to said charge-coupled device.
- (Original) The method of claim 1 further comprising selectively applying a conformal coating to at least one of said transfer plate, said thermal barrier, and an interface between said transfer plate and said thermal barrier.
- (Original) The method of claim 5 wherein said selectively applying comprises providing an environmentally tight moisture barrier with said conformal coating.
- (Original) The method of claim 1 further comprising cooling said hot side of said thermoelectric cooling device.
- (Original) The method of claim 7 wherein said cooling comprises transferring heat generated by said thermoelectric cooling device from said charge-coupled device.

- (Original) The method of claim 1 wherein said mounting comprises attaching said transfer plate to an epoxy laminate material.
- 10. (Original) The method of claim 1 wherein said mounting comprises isolating heat generated by said thermoelectric cooling device from said charge-coupled device.
- (Previously Presented) An apparatus comprising:
- a charge-coupled device mounted in a housing, said housing including a thermal barrier and a cavity for mounting said charge-coupled device;
- a thermoelectric cooling device having a cold side and a hot side; said cold side coupled to said charge-coupled device;
 - a heat sink: and
- a transfer plate coupling said hot side of said thermoelectric cooling device to said heat sink in a heat transfer relationship; said transfer plate mounted to said thermal barrier such that heat transfer between said thermoelectric cooling device and said housing is inhibited.
- 12. (Original) The apparatus of claim 11 further comprising a spacer interposed between said charge-coupled device and said cold side of said thermoelectric cooling device.
- 13. (Original) The apparatus of claim 12 wherein said spacer is selectively dimensioned to maximize a surface area of contact between said charge-coupled device and said cold side of said thermoelectric cooling device.
- 14. (Original) The apparatus of claim 12 wherein said spacer is selectively dimensioned to position said hot side of said thermoelectric cooling device in a predetermined location relative to said charge-coupled device.
- 15. (Original) The apparatus of claim 11 further comprising a conformal coating applied to at least one of said transfer plate, said thermal barrier, and an interface between said transfer plate and said thermal barrier.
- 16. (Original) The apparatus of claim 15 wherein said conformal coating provides an environmentally tight moisture barrier.
- (Original) The apparatus of claim 11 wherein said thermoelectric cooling device is a Peltier cooling device.

- 18. (Original) The apparatus of claim 11 wherein said transfer plate is constructed of a heat-conducting metal.
- (Original) The apparatus of claim 11 wherein said thermal barrier is constructed of an epoxy laminate material.
- (Original) The apparatus of claim 12 wherein said spacer is constructed of a heatconducting metal.
- 21. (Currently Amended) A method of cooling a charge-coupled device, said method comprising:

providing a cavity in a housing, said cavity adapted to house said charge-coupled device:

coupling said charge-coupled device to a cold side of a thermoelectric cooling device; coupling a hot side of said thermoelectric cooling device to a transfer plate; and sealing said cavity, said sealing operable to provide a substantially environmentally-tight moisture barrier for said device; and

interposing a thermal barrier between said housing and said transfer plate wherein said interposing comprises isolating heat generated by said thermoelectric cooling device from said charged-coupled device.

- (Previously Presented) The method of claim 21 further comprising interposing a
 spacer between said charge-coupled device and said cold side of said thermoelectric cooling
 device.
- 23. (Previously Presented) The method of claim 22 wherein said interposing spacer between said charge-coupled device and said cold side of said thermoelectric cooling device comprises selectively dimensioning said spacer to maximize a surface area of contact between said charge-coupled device and said cold side of said thermoelectric cooling device.
- 24. (Previously Presented) The method of claim 22 wherein said interposing spacer between said charge-coupled device and said cold side of said thermoelectric cooling device comprises selectively dimensioning said spacer to position said hot side of said thermoelectric cooling device in a predetermined location relative to said charge-coupled device.
- 25. (Previously Presented) The method of claim 21 further comprising cooling said hot side of said thermoelectric cooling device.

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- 26. (Previously Presented) The method of claim 25 wherein said cooling comprises transferring heat generated by said thermoelectric cooling device from said charge-coupled device.
- 27. (Previously Presented) The method of claim 21 wherein said sealing comprises applying a conformal coating.
- 28. (Previously Presented) The method of claim 21 wherein said sealing is operable to prevent moisture from penetrating said cavity.
- 29. (Canceled)
- 30. (Currently Amended) The method of elaim-29 claim 21 wherein said thermal barrier is constructed of an epoxy laminate material.
- (Canceled)
- 32. (Previously Presented) An apparatus comprising:

a housing having a cavity defined therein, said cavity operative to mount a chargecoupled device;

a thermoelectric cooling device having a cold side and a hot side, said cold side coupled to said charge-coupled device;

a heat sink;

a transfer plate coupling said hot side of said thermoelectric cooling device to said heat sink in a heat transfer relationship; and

a conformal coating, said conformal coating operable to provide a substantially environmentally tight barrier for said charge-coupled device and to inhibit penetration of said cavity by moisture.

- 33. (Previously Presented) The apparatus of claim 32 further comprising a spacer interposed between said charge-coupled device and said cold side of said thermoelectric cooling device.
- 34. (Previously Presented) The apparatus of claim 33 wherein said spacer is selectively dimensioned to maximize a surface area of contact between said charge-coupled device and said cold side of said thermoelectric cooling device.

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35. (Previously Presented) The apparatus of claim 33 wherein said spacer is selectively dimensioned to position said hot side of said thermoelectric cooling device in a predetermined location relative to said charge-coupled device.

- 36. (Previously Presented) The apparatus of claim 32 wherein said thermoelectric cooling device is a Peltier cooling device.
- (Previously Presented) The apparatus of claim 32 wherein said transfer plate is constructed of a heat-conducting metal.
- 38. (Canceled)
- (Previously Presented) The apparatus of claim 32 further comprising a thermal barrier interposed between said housing and said transfer plate.
- (Previously Presented) The apparatus_of claim 39 wherein said thermal barrier is constructed of an epoxy laminate material.
- 41. (Previously Presented) The apparatus of claim 39 wherein said thermal barrier is interposed such that heat generated by said thermoelectric cooling device is substantially isolated from said charged-coupled device.